

CLAIMS

- 5 1. A method for communicating information, the method comprising:
- allocating a time slot in a time division multiple access system for a transmission from a subscriber to a headend the time slot being sufficient for only a first portion of a transmission,
- 10 a second portion of the transmission being transmitted in other than the first time slot;
- enhancing synchronization a clock of the subscriber with respect to a clock of the headend using a message transmitted from the headend to the subscriber which is indicative of an error in a
- 15 subscriber transmission time with respect to the time slot;
- using a feedback loop process to determine at least one of fractional symbol timing correction and carrier phase correction of a transmission from the subscriber to the headend;
- monitoring quality of at least one channel and changing
- 20 modulation in response changes to monitored channel quality;
- using information representative of parameters of received time division multiple access data to facilitate processing of the received time division multiple access data in a receiver, the parameters being communicated within the headend; and
- 25 generating filter coefficients at the headend from a ranging signal transmitted from the subscriber to the headend and transmitting the filter coefficients from the headend to the subscriber, the filter coefficients being used of the subscriber to compensate for noise in a transmission from the subscriber to the
- 30 headend.

CANCELLED